<資料>アメリカ合衆国における熔融塩に関する研究概況

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高温化学，原子力に関する研究等の発展に伴つて熔融塩に関する研究も活潑となつて居る．アメリカ合衆国において熔融塩に関する研究を実施して居る主要大学，研究所の概況を参考迄に表に一括して示す．

Name and Address of Institution	Personal	Properties and Chemical Systems being Studied
Aluminum Company of America, Alcoa Research Laboratories, P. O. Box 772, New Kensington, Pa.	P. A. Foster J. J. Stokes W. B. Frank L. M. Foster	Cryolite and systems of interest to Aluminum Industry.
Argonne National Laboratory, Lemont, Illinois.	D. M. Gruen N. Isaac R. McBeth C. Slana C. Thalmayer E. Iberson	Spectroscopy of fused salt systems. Visible, infrared; complex ions, oxidation states, acid-base reactions, kinetics. Electrochemistry of fused salt systems. Redox potentials, chronopotentiometry. Crystal growth from fused salt systems. Metals, refractory oxides, sulfides, borides, etc. Solution chemistry in fused salt systems. Solvent extractions, precipitation reactions, metathesis reactions.
Battelle Memorial Institute, 505 King Avenue, Columbus 1, Ohio.	C. L. Faust L. D. McGraw	Electrolysis in fused salt system.
The Carborundum Company, Carborundum Metals Co. Inc., Akron, New York.	D. R. Spink	Metal chlorides
Massachusetts Institute of Technology, Dept. of Metallurgy, Cambridge, Mass.	J. Chipman J. F. Elliott T. B. King	CaO-SiO_2-Al_2O_3, CaO-MgO-SiO_2-Al_2O_3, CaO-FeO-Fe_2O_3-SiO_2
Massachusetts Institute of Technology, Laboratory for Insulation Research, 77 Massachusetts Avenue, Cambridge 39, Mass.	A. Smakula	
National Carbon Company, Research Laboratories, Division of Union Carbide Corporation, P. O. Box 6116, Cleveland 1, Ohio.	S. Senderoff L. M. Litz	Molten Halide mixtures: metals dissolved in molten salts. Determination of physical properties such as viscosity, density, conductivity, optical behavior, etc,: study of chemical reactivity including electrochemistry, thermodynamics (especially electrode potentials), and reaction kinetics.
National Lead Company, Titanium Division, Research Lab., Box 58, South Amboy, N. J.	O. W. Moles L. W. Gendvil W. R. Opie	$NaCl$-$TiCl_2$-$TiCl_3$, KCl-$NaCl$-$TiCl_2$-$TiCl_3$, $NaCl$-$ZrCl_2$-$ZrCl_3$
New York College of Ceramics, Alfred University, Alfred, New York.	T. J. Gray (Total group 24) C. E. Myers	Transport phenomena in molten electrolytes in conjunction with high temperature fuel cells. Interaction and corrosion between molten electrolytes and metals and ceramics. Fused pyrophosphate, metaphosphates, orthophosphates, alkalimetal salts.
The Pennsylvania State University, Dept. of Chemistry, Analytical Laboratories, University Park, Pa.	J. Jordan E. J. Billingham, Jr. J. Pendergrast K. Romberger	Thermochemical Titrations and polarography. Stoichiometry, enthalpies, free energies, and entropies. Precipitation, complexation and oxidation-reduction processes.
Pennsylvania State University, University Park, Pa.	J. Short H. Cohen R. Roy	All combinations of alkali halides. CaF_2-SrF_2-YF_3-LaF_3
Stanford Research Institute, Menlo Park, California.	D. Cubicciotti F. Keneshea T. Milne	Solution of metals dissolved in molten salts. Evaporation of molten salts.
Temple University, Research Institute, 4150 Henry Avenue, Philadelphia 44, Pa.	A. V. Grosse A. D. Kirshenbaum J. A. Cahill	Alkaline earth fluorides including magnesium fluoride (Group II A). Rare earth fluorides. Aluminum oxide. Silicon dioxide.
U. S. Bureau of Mines, Electrotechnical Experiment Station, P. O. Box 217, Norris, Tennessee.	G. Farrior	Chlorides-fluorides (with boride).
United States Steel Corp., Fundamental Research Lab., Research Centre, Monroeville, Pa.	B. M. Larsen L. O. Sordahl	Systems related to the open hearth furnace practice.
Westinghouse Research Laboratories, Beulah Road, Churchill Boro., Pittsburgh 35, Pa.	E. W. Johnson	Sulfides and oxides of transition metals. Oxides.

（松 島 知 夫）